

Title (en)

Illumination unit, projection display unit, and direct view display unit

Title (de)

Beleuchtungseinheit, Projektionsanzeigeeinheit und Direktansichtsanzeigeeinheit

Title (fr)

Unité d'éclairage, unité d'affichage de type projection et unité d'affichage de type affichage direct

Publication

**EP 2587806 B1 20190227 (EN)**

Application

**EP 12007938 A 20111013**

Priority

- JP 2010263735 A 20101126
- EP 11008277 A 20111013

Abstract (en)

[origin: EP2458875A1] An illumination unit includes one or more light sources each including a solid-state light-emitting device configured to emit light from a light emission region including a single or a plurality of light-emitting spots. The solid-state light-emitting device includes a single chip or a plurality of chips each emitting a light beam. Three or more of the light-emitting spots are provided within the whole of one or more light sources, to allow the whole of one or more light sources to emit light beams in two or more wavelength bands different from one another, and the solid-state light emitting device in a first light source which is at least one of the one or more light sources, has a plurality of light-emitting spots which emit light in the same wavelength band.

IPC 8 full level

**H04N 9/31** (2006.01)

CPC (source: EP US)

**F21V 5/007** (2013.01 - EP US); **F21V 5/008** (2013.01 - EP US); **F21V 5/045** (2013.01 - EP US); **F21V 9/08** (2013.01 - US); **F21V 29/85** (2015.01 - US); **G03B 21/00** (2013.01 - US); **G03B 21/005** (2013.01 - US); **G03B 21/2013** (2013.01 - EP US); **G03B 21/2033** (2013.01 - EP US); **H04N 9/3138** (2013.01 - US); **H04N 9/315** (2013.01 - EP US); **H04N 9/3161** (2013.01 - US)

Citation (examination)

- EP 2023452 A2 20090211 - SANYO ELECTRIC CO [JP]
- EP 0985952 A1 20000315 - MITSUBISHI ELECTRIC CORP [JP]
- JP 2000347291 A 20001215 - SEIKO EPSON CORP
- US 2009059177 A1 20090305 - OKUDA MICHIIHIRO [JP], et al
- US 2010284433 A1 20101111 - HATA MASAYUKI [JP], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 2458875 A1 20120530; EP 2458875 B1 20190612**; CN 102566232 A 20120711; CN 102566232 B 20151021; EP 2587806 A1 20130501; EP 2587806 B1 20190227; EP 3541069 A1 20190918; EP 3541069 B1 20230531; JP 2012113223 A 20120614; US 10162250 B2 20181225; US 2012133900 A1 20120531; US 2014285773 A1 20140925; US 2016301899 A1 20161013; US 2017332058 A1 20171116; US 8770761 B2 20140708; US 9374564 B2 20160621; US 9749602 B2 20170829

DOCDB simple family (application)

**EP 11008277 A 20111013**; CN 201110369274 A 20111118; EP 12007938 A 20111013; EP 19170273 A 20111013; JP 2010263735 A 20101126; US 201113276818 A 20111019; US 201414296986 A 20140605; US 201615180848 A 20160613; US 201715668277 A 20170803